

Testing Plans Developed by the D. I. Mendeleev
All-Union Scientific Research Institute of Metrology,
by K. P. Shirokov, 8 pp.

RUSSIAN, per, Izmeritel Tekh, No 7, 1960, pp 12-15.

ISA

Sci -
Apr 61

146,447

Application of the Quadrant Electrometer to the
Testing of Wattmeters on High Frequency Alternating
Current, by K. P. Shirokov, 18 pp. UNCLASSIFIED

RUSSIAN, per, Trudy Vses Nauchno-Issled Inst Metrolo;
1956, Vol XXVIII, pp 5-19.

Sci Mus Lib

Tr 57/4193

Sci - Eng, instrument 61-27259
Apr 58

62,283

Forecasting Yields of Down Herring Years
Classes, by L. V. Shirakov. 6 pp.
RUSSIAN, per, Trudy Atlantiki, No 13, 1964,
pp 42-48.

Dept of Interior
Bureau of Commercial Fisheries
Office of Foreign Fisheries
A-32-Oct 1969-No 54
On Loan

L. V. Shirakov

Sci-BAM
Dec 69

36
398,525

On the Theory of Striae in Gaseous Discharge, by
M. F. Shirokov,

Full translation.

RUSSIAN, thrice-mo per, Dok Ak Nauk SSSR, Vol
LXXXIX, No 5, 1953, p 837.

MBF 128

RT-542

8343

Scientific - Physics

CTS/DEX

On the Theory of Stationary Striations in the
Positive Column of a Gas Discharge, by O. V.
Prudkovskaya, M. F. Shirokov, 4 pp.

RUSSIAN, thrice-mo per, Dok Ak Nauk SSSR, Vol CXII,
No 6, 1957, pp 1023-1026.

Amer Inst of Phys
Sov Phys, "Doklady"
Vol II, No 1

Sci - Physics
Dec 57

56,961

Oscillations in Electron-Ion Plasmas, by M. F.
Shirokov, O. V. Prudkovskaya.

Iz Vysshikh Ucheb Zabedenii, Fiz i
RUSSIAN, per, ~~Scientific Reports of Higher Schools,~~
~~Physical and Mathematical Sciences, No 2, 1958,~~
p 192. *Ma Temat, No 2, 1958, p 192.*

Navy 2266/T-161

Sci - Electronics, Physics
Aug 59

93,797

Shirokov, M. F.
VISCOSITY OF FLUIDS AND TRANSFER OF
MOMENTUM BY WAVES. [1963] [14p] Srefs
Order from OTS, SLA or ETC \$1.60 TT-63-20815

Trans. of mono. [Sovesahchanie Vязkosti Zhidkosti i
Kolloidnykh Rastvorov (Conference on Viscosity of
Liquids and Colloidal Solutions) May 41. [Proceedings]
v. 2 Moscow/Leningrad] 1944, p. 35-42.

DESCRIPTORS: *Liquids, *Viscosity, Theory,
*Mechanical waves, *Wave transmission, *Thermal
conductivity.

For abstract see Chemical Abstracts 41: 1516, 1947.

(Mechanics--Hydrodynamics, TT, v. 11, no. 3)

TT-63-20815

I. Title: Superfluidity
I. Shirokov, M. F.
II. Title: Conference...

3257938

Office of Technical Services

Isotropic Space With Discrete Gravitational-Field
~~Space~~ Sources. On the Theory of a Nonhomogeneous
Isotropic Universe, by M. F. Shirokov, I. Z. Fisher,
7 pp.

RUSSIAN, per, Astron Zhur, Vol XXXIX, No 5, 1962,
pp ~~862-867~~. 899-910.

Amer Inst of Phys
Sov Astron - AJ
Vol VI, No 15

Sci
Apr 64

254,142

EM Oscillations of Electron-Ion Plasmas, by M. F.
Shirokov, O. V. Prudkovskaya, 11 pp.

RUSSIAN, per, Nauch Dok Vysshei Shkoly, Fiz-Mat
Nauki, No 2, 1956, pp 192-199.

AEC T0-230-T161

171 2 32

On the Equations of Motion of Finite Masses in the
General Theory of Relativity, by M. F. Shirokov,
V. X B. Brodovskiy, 6 pp.

RUSSIAN, no per, Zhur Eksper i Teoret Fiz, Vol
XXXI, No 6, Dec 1956, pp 1027-

Amer Inst of Phys
Sov Phys, JETP
Vol IV, No 6

51,908

Sci - Physics
Aug 57

Interaction Between Gravitational-Capillary and
Magnetohydrodynamic Waves, by M. F. Shirokov, 4 pp.

RUSSIAN, per, Zhur Eksper i Teoret Fiz, Vol XXXIII,
No 1, 1957, pp 67-71.

Amer Inst of Phys
Sov Phys-JETP
Vol VI, No 1

Sci - Physics
May 58

62,774

Velocity and Temperature Discontinuities Near the
Walls of a Body Around Which Rarefied Gases Flow With
Transonic Velocities, by M. F. Shirokov, 4 pp.

RUSSIAN, per, Zhur Eksper i Teoret Fiz, Vol XXXIV,
No 6, 1958, pp 1490-1495.

Amer Inst of Phys
Sov Phys - JETP
Vol VII (34), No 6

Sci - Phys
Jan 59

78,731

Estimates of the Effective Interaction Radius of
Particles, by M. I. Shirokov, 4 pp

RUSSIAN, per, Zhur-Eksper i Teoret Fiz, Vol XLII,
No 1, 1962, pp 173-177.

AIP
SOV Phys-JETP
Vol XV, # No 1

Sci

Jul 62

214,688

Space and Charge Parities of a Proton-Antiproton
System and its Multi-Pion Annihilation, by M. I.
Shirokov, 5 pp.

RUSSIAN, per Zhur Eksper i Teoret Fiz, Vol XLI,
No 1, 1961, pp 190-196.

AIP
Sov Phys - JETP
Vol XIV, No 1

Sci

Mar 62

188, 147

A Relativistic General Theory of Reactions,
by M. I. Shirokov, 4 pp.

RUSSIAN, per, Zhur Eksper i Teoret Fiz,
Vol XXXIX, No 3 (9), 1960, pp 633-638.

AIP
Soviet Phys - JETP
Vol XII, No 3

Sci

May 61

155,138

The Spatial and Charge Parities and Two-Meson
Annihilation of the Proton-Antiproton System, by M. I.
Shirokov, E. O. Okonov, 5 pp.

RUSSIAN, per, Zhur Eksper i Teoret Fiz, Vol XXXIX,
No 2(8), 1960, pp 285-292.

AIP
Sov Phys-JETP
Vol XII, No 2

Sci -
Apr 61

146,403

Time Reversal and Reactions Involving Polarized
Particles, by M. I. Shirokov, 5 pp.

Russian, per, Zhur Eksp i Teoret Fiz, Vol XXXIII,
No 4 (10), 1957, pp. 975-98.

Amer Inst Phys
Sov Phys - P
Vol VI (33), No 4

Sci - Phys

Jun 58

65, 679

Polarized Particles Reactions, by M. I. Shirokov,
27 pp.

RUSSIAN, per, Zhur Eksper i Teoret Fiz.

AGC 7-3031
CIA/FDD X-2560

Sci - Physics
Oct 57

53, 70-8

NO CTS

HEC NP-85

On the Spin of the ϕ -Particle, by M. I. Shirokov,
7 pp/

RUSSIAN, per, Zhur Ekspert i Teoret Fiz, Vol XXXI,
Ser 4, 1956, p 734

CIA/FDD X-2561

Sci - Physics
Oct 57

53,759

NO CTS

Asymmetrical Symmetries in Cascade Reactions and Parity
Conservation, by M. I. Shirokov, 6 pp.

RUSSIAN, per, Zhur Ekspert i Teoret Fiz, Vol
XXIV(9), No 5, 1959 pp 1527-1532.
1527

Amer Inst of Phys
Sov Phys-JETP

Sci

Dec 59

103,706

The Relativistic Theory of Reactions Involving
Polarized Particles, by Chou Kuang-Chao, M. I.
Shirokov, 7 pp.

RUSSIAN, per, Zhur Ekaper 1 Teoret Fiz, Vol XXXIV,
No 5, 1958, pp 1230-1239.

Amer Inst of Phys
Sov Phys - JETP
Vol VII (34), No 5

Sci - Phys
Dec 58

77,529

The Use of Ferrochromium Scrap in Smelting
Chromium and Chromium -- Nickel Steels, by
B. G. Petukhov, N. I. Shirokov, 3 pp.

RUSSIAN, per, Metallurg, No 9, 1959, pp 13-
16.

Acta Metallurgica

Sci

Apr 61

144, 445

Deoxidation of Rail Steel by a Reduced Quantity of
Aluminum, by N. I. Shirokov, B. G. Potukhov, 4 pp.

RUSSIAN, per, Metallurg, No 1, 1958, pp 17, ~~20~~ 20.

Consultants Bureau

Sci - Min/Met

Dec 58

77,434

(NY-3905/2)

Deceleration of a Supersonic Flow in Wind Tunnel
Diffusers, by N. K. Shirokov, 12 pp.

RUSSIAN, 1959, 13 Ak. Nauk SSSR, Otdel Tekh. Nauk,
Mekh i Mash, No 2, Mar-Apr 1959, pp 19-24.

JPRS-L-1188-N

Sci - Phys, USSR
Feb 60

107,707

Starch Determination in Sausage, by N. V.
Shirokov, M. K. Milovidova, 6 p.

GERMAN, per, Zeit fur Untersuchung der
Lebensmittel, 1955, Vol LXX, No 4,
pp 251-255. 3

SLA 60-10145

Sci
Apr 60
Vol III, No 3

112, 149

Accumulation of Naturally Radioactive Elements by
Soil Microorganisms, by N. A. Krasil'nikov, A. A.
Drobkov, O. G. Shirokov, 3 pp.

RUSSIAN, per, Dok Ak Nauk SSSR, Vol CXX, No 5,
1958, pp 1136-.

Amer Inst of Biol Sci

Sci - Med

97018

(DC-3901/55)

Conference on Structural and Mathematical
Linguistics, by O. S. Shirokov, 8 pp.

RUSSIAN, per, Voprosy Yazkoznaniya, Vol X, No 1,
Jan/Feb 1961, pp 155-159.

JPRS 8132

Sci - Misc

Apr 61

149,896

Shirokov, P. A.
A SKETCH OF THE FUNDAMENTALS OF LOBACHEV-
SKIAN GEOMETRY

L. F. Boron, tr. 1964, 88p
Order from Stechart Hadner Service Agency Inc.,
31 East 10th St., New York 3

Trans. of mosco. [Kratiki Ocherk Osnov Geometrii
Lobachevskogo], Moscow, 1955, 87p].

TT-64-22752

I. Shirokov, P. A.
II. Noordhoff (P.) Ltd.,
Groningen (Netherland)

NLL (loan)

4488

(Mathematics, TT, v. 12, no. 7)

Radioactive Contamination of the Soviet Environment, by
V. P. Shirokov, S. I. Shirokov, 277 pp.
MOSCOW, 1962, Radioizdatiya Eksperimental'nyy Vychisl
Sredy, Moscow, 1962. 101,000

Sci-Med Sci
Feb 64

Shirokov
S.I. Shirokov

ABC-TT-000

101,013

A New Phase Fluorometer, by A. M. Bonch-Bru^Ysovich,
V. A. Molchanov, V. I. Shirokov, 4 pp.

RUSSIAN, no per, Iz Ak Nauk, Ser Fiz, Vol XX, No 5,
1956, pp 596-600.

Consultants Bureau

Sci - Physics
Jun 1957

49,106

Some Problems of Phase Measurements, by A. M.
Donch-bruevich, V. I. Shirokov, 26 pp.

RUSSIAN, per, Zhur Tekh Fiz, Vol XXV, 1955,
pp 1825-1842. 9095537

AEC UCRL Tr-734

Sci - Phys
Mar 62

186.484

The Kinetics of the Concentration Depolarization of
Fluorescence and of the Intermolecular Transfer
of Excitation Energy, by P. I. Kudryashov, B. Ya.
Koshnikov, and V. I. Shirokov, by 4 pp.

RUSSIAN, per, Optika i Spektro, Vol IX, No 3,
1960, 341-348.

Optical Soc of Amer

Sci

Jan 61

136,326

Stabilization of the Emission of Gas Discharge Tubes,
by V. I. Shirokov, 3 pp.

RUSSIAN, no per, Iz Ak Nauk, Ser Fiz, Vol XX, No 5,
1956, pp 605-607.

Consultants Bureau

SLA Columbia Technical Trans

Sci - Physics
Jun 1957

49,108

Kinetics of Impurity Quenching of Fluorescence
in Solutions, by B. Ya. Sveshnikov, V. M. Shiro-
kov, L. A. Kuznetsova and P. I. Kudryashov, 4 pp.

RUSSIAN, per, Iz Ak Nauk, Ser Fiz, Vol XXII,
No 9, 1958, pp 1035-1038.

Columbia Tech

Sci

Dec 59

102, 137

Action of Noise on a Two-Channel Receiving Apparatus
With Automatic Amplification Control, by V. V.
Shirokov, 13 pp.

RUSSIAN, per, Elektrosvyaz', No 1, 1961, pp 16-23.

PP

Sci

Jul 61

161,176

The Influence of Interference on an Automatic Gain
Control System, by V. V. Shirokov, V. G. Repin,

RUSSIAN, per, Radiotekh, Vol XIV, No 4, 1959,
pp 66-72.

PP

150,086

Sci -
Apr 61

The Influence of an Amplitude-Modulated Signal on a
Double-Loop AGC System, by V. V. Shirokov, 9 pp.

RUSSIAN, per, Radiotekh i Elektron, Vol V, No 2,
1960, pp 218-223.

PP

166, 299

Sci

Aug 61

Some Results Achieved in the Field of Industrial
Hygiene and Basic Tasks Facing It In Connection
With the Development of Major Chemical Industry,
by Yo. I. Vorontsova, Yu. G. Shirokov, 7 pp.

RUSSIAN, per, Vest Ak Med Nauk SSR, Vol XIX,
No 7, 1964, pp 3-8.

JPRS 27052

Sci
Jan 65

270,369

Microcovariance and Microcausality in Quantum
Theory

By Yu. M. Shirokov p. 14

RUSSIAN, per, Zhur Eksper i Teoret Fiz, Vol XLIV,
No 1, 1963, pp. 203-224

Amer Inst of Phys
Sov Phys - JETP
Vol XVII, No 1

Sci

Aug 63

343,056

Space and Time Reflections in Relativistic Theory, by
Yu. M. Shirokov, 8 pp.

RUSSIAN, per, Zhur Eksper i Teoret Fiz, Vol XXXVIII,
No 1, 1960, pp 140-150.

Amer Inst of Phys
Sov Phys - JETP
Vol XI, No 1

Sci
Aug 60

122,172

Possible States of a Two-Graviton System, by
V. A. Zhirnov, Yu. M. Shirokov, 4 pp.

RUSSIAN, no per, Zhur Eksper i Teoret Fiz, Vol XXX,
No 6, 1956, pp 1098-1103.

Amer Inst of Physics
Soviet Physics, JETP
Vol III, No 6

Sci - Physics
Apr 57 CFS

46,733

Invariant Parametrization of the High-Energy
Relativistic Scattering Matrix, by A. A. Chashkov,
Yu. N. Shirokov, 5 pp

RUSSIAN, per, Zhur-Kaper 1 Teoret Fiz, Vol XLII,
No 1, 1962, pp 144-151.

AIP
Sov Phys-JETP
Vol XV, No 1

Sci

Jul 62

214,685

~~classified~~

Invariant Parametrization of Local Operators, by
A. A. ~~Savak~~ Cheshkov, Yu. M. Shirokov, 7pp

RUSSIAN, per, Zhur Eksper i Teoret Fiz, Vol. XLIV,
No 6, 1963, pp 1982-1992

Amer Inst of Phys
Sov Phys - JETP
Vol XVII, No 6

Sci
Jan 64

245, 877

On the Problem of Unquantized Relativistically
Invariant Renormalized Equations for a Three-
Dimensional Extended Particle, by Yu. M. Shirokov,
D. G. Sannikov, 6 pp.

RUSSIAN, no per, Zhur Eksper i Teoret Fiz, Vol XXXI,
No 1, 1956, pp 113-120.

Amer Inst of Physics
Soviet Physics, JETP
Vol IV, No 1

Sci - Physics
Apr 57 CTS

46, 714

A Group-Theoretical Consideration of the Basis
of Relativistic Quantum Mechanics. IV. Space
Reflections in Quantum Theory, by Yu. M. Shirokov,
6 pp.

RUSSIAN, per, Zhur Eksper i Teoret Fiz, Vol
XXXIV, No 3, 1958, pp 717-724.

Amer Inst of Phys
Sov Phys - JETP
Vol VII (34), No 3

Sci - Physics

Oct 58

75,383

A Group-Theoretical Consideration on the
Basis of Relativistic Quantum Mechanics. *III*
Irreducible Representations of the Classes
 P_0 and O_0 , and the Non-Completely-Reducible
Representations of the Inhomogeneous Lorentz
Group, by Yu. M. Shirokov, 6 pp.

RUSSIAN, per, Zhur Eksp. i Teoret. Fiz., Vol
XXXIII, No 5 (11), 1957, pp 1208-1214.

Amer Inst of Phys
Sov Phys-JETP
Vol VI(33), No 5

67,089

Sci - Phys
Jul 58

New Reduction Formulas.(T), by Yu. M. Shirokov,
7 pp.

RUSSIAN, per, Zhur Eksper i Teoret Fiz, Vol XLVI,
No 2, 1964, pp 583-592.

Amer Inst of Phys
Sov Phys-JETP
Vol XIX, No 2

Sci
Sep 64

266,546

Relativistic Corrections to Phenomenological
Hamiltonians, by Yu. M. Shirokov, 3 pp.

RUSSIAN, per, Zhur Eksper i Teoret Fiz,
Vol XXXVI(9), No 8, 1959, pp 474-477.

21
Amer Inst of Phys
Sov Phys - JETP

Sci- Phys

Sept 59

97,170

A Group-Theoretical Consideration on the Basis of Relativistic Quantum Mechanics. II. Classification of the Irreducible Representations of the Inhomogeneous Lorentz Group, by Yu. M. Shirokov, 1957.

RUSSIAN, per, Zhur Eksp. i Teoret. 2, Vol XXXIII, No 5 (11), 1957, pp 1196-1207.

Amer Inst of Phys
Sov Phys-JETP
Vol VI(33), No 5

Sci - Phys

Jul 58

67,088

On Relativistic Invariance in Quantum Theory, by
Yu. M. Shirokov, 5 pp.

RUSSIAN, thrice-mo per, Dok Ak Nauk SSSR, Vol CXI,
No 6, Nov-Dec 1956, pp 1223-

Amer Inst of Phys
Sov Phys "Doklady"
Vol I, No 6

Sci - Physics
Oct 57

53,391

Relativistic Theory of Free Particles Having Three-Dimensional Extension, by Yu. M. Shirokov.

RUSSIAN, per, Zhur Experimental'noi i Theoreticheskoi Fiziki, Vol XXII, No 5, 1952, pp 539-543.

Sci Tr Center
estp.441

17, 436

Scientific - Physics

On the ² Electromagnetic Radii of the Lightest
Nuclei in the Ground and Lowest Excited States,
by A. K. Kaminskiy, Yu. M. Shirokov, 4 pp.

RUSSIAN, per, Zhur Eksper i Teoret Fiz, Ak Nauk
SSSR, Vol XXXVI (9), No 3, 1959, pp 874-878.

AIP
Sov Phys - JETP

Sci - Phys
Oct 59

100,027

A Group-Theoretical Consideration of the Basis
of Relativistic Quantum Mechanics V, by Yu. M.
Shirokov, 7 pp.

RUSSIAN, per, Zhur Eksper i Teoret Fiz, Ak Nauk
SSSR, Vol XXXVI (9), No 3, 1959, pp 879-888.

AIP
Sov Phys - JETP

Sci - Phys
Oct 59

100,028

Multiple Interaction Hamiltonians in Quantum
Electrodynamics, by G. F. Filimonov, Yu. M.
Shirokov, 4 pp.

RUSSIAN, no per, Zhur Eksper i Teoret Fiz,
Vol XXXII, No 1, Jan 1957, pp 99-104.

Amer Inst of Phys
Sov Phys, JETP
Vol V, No 1

Sci - Phys
Sep 57

52,599

The Relativistic Theory of Spin, by Yu. M. Shirokov

RUSSIAN, per, Zhur Eksper i Teoret Fiz, Vol XXI,
1951, pp 748-760.

Nat'l Res Council Canada TT 276

Scientific - Physics

~~JULIUS~~/DEX

Price 0.25

17,776

Effect of Signal Fluctuations on a Receiver With AGC, by
V. V. Shirokov, 8 pp.

RUSSIAN, per, Radiotekh i Elektron, No 9, 1961.

AIEE

Sci

207,060

Aug 62

A Group-Theoretical Consideration on the Basis of
Relativistic Quantum Mechanics, ~~1957~~. The General
Properties of the Inhomogeneous Lorentz Group, by
Yu. M. Shirokov, 9 pp.

RUSSIAN, per, Zhur Eksp. i Teoret. Fiz, Vol XXXIII,
No 4 (10), 1957, pp. 861-872

Amer Inst of Phys
Sov Phys-JETP
Vol VI (33), No 4

Sci - Phys

Jun 58

65, 694

Determination of the Stresses Effective in the
Foci of the Hindu-Kush Earthquakes, by E. I.
Shirokov, 4 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Ser Geofiz, No 12,
1959, pp 1739-1744.

Amer Geophys Union

Sci

Sep 60

126,236

On Stresses Effective in the Foci of Earthquakes in
Central Asia, by E. I. Shirokova, 5 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Ser Geofiz,
No 6, 1961, pp 876-881.

AGU

Sci

May 62

194,517

Some Facts on the Character of the Velocity
Change in the Upper Layers of the Earth's
Mantle, by E. I. Shirokova, 10 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Ser Geofiz, No 8,
~~8~~ 1959, pp 1127-1137.

Amer Geophys Union

Sci
Aug 60

124,457

Test of PC and PCT Invariance in Decay Processes,
by M. I. Shirokov, 18 pp.

RUSSIAN, per, Uspekhi Fiz Nauk, Vol LXXVIII,
No 3-4, 1962, pp 471 - 548

Amer Inst of Phys
Sov Phys - Uspekhi
Vol V, No 6

Sci

Jul 63

342, 326

Shirokova, N. I., Russkova, E. F. and others.
STUDIES OF POLYCARBONATES. [III]. STUDIES OF
2,2-Bis(4-HYDROXYPHENYL)PROPANE POLYCARBON-
ATES IN A HOMOGENEOUS MEDIUM AND THEIR
PROPERTIES. [1961] 9p.
Order from ATS \$12.50

ATS-60N52R

Trans. of Vysokomolekulyarnye Soedineniya (USSR)
1961, v. 3, no. 4, p. 642-649.

DESCRIPTORS: *Carbonates, Chemical properties,
Propanes, Hydroxides, Phenyl radicals.

(Chemistry--Organic, TT, v. 6, no. 7)

61-25218

- I. Shirokova, N. I.
- II. Russkova, E. F.
- III. Title: Studies of 2,2-Bis...
- IV. ATS-60N52R
- V. Associated Technical
Services, Inc., East
Orange, N. J.

Office of Technical Services

Chlorination of Saturated Nitriles, By F. N.
Stepanov, N. I. Shirokova, 2 pp.

RUSSIAN, no per, Zhur Obshch Khim, Vol XXV, No 5,
1955, pp 941-942.

Consultants Bureau

Scientific - Chemistry

41, 369

Hydrated Calcium Silicates, by N. A. Toropov,
A. I. Borisenko, P. V. Shirokova, 4 pp.

Full translation.

RUSSIAN, bino per, Iz Ak Nauk SSSR, Otdel Khim Nauk,
No 1, Jan-Feb 1953, pp 65-69.

Consultants Bureau

Scientific - Chemistry

Aug 54 GTS

17,105

Second Approximation in the Method of Smooth Per-
turbations, by T. A. Shirokova, 6 pp.

RUSSIAN, per, Akust Zhur, Vol V, No 4, 1959,
pp 485-489.

ATP
Sov Phys - Acoustics
Vol V, No 4

Sci
Mar 61

154,823

Content Welding and Heat Treatment of High-Strength Carbon Wire, by G. P. Sakhatkiy, N. M. Shirokovskiy, 5 pp.

RUSSIAN, per, Stal, No 2, 1962, pp 180-185.

RIHT

Sci

205,522

Jul 62

A Following Device With an Inductive Transducer,
For Automatic Welding, by R. M. Shirokovskiy,
R. I. Lashkevich, 3 pp.

RUSSIAN, per, Avtomat Svarka, No 8, 1961, pp 58-61.

BWRA

Sci
23 Jul 62

204,257

Group-Theoretical Methods in the Quantum Physics of
Solids (Spatial Symmetry), by A. V. Sokolov, V. P.
Shirokovskiy, 16 pp.

RUSSIAN, per, Uspekhi Fiz Nauk, Vol LXXI, 1960,
pp 485-513.

AIP
Soviet Phys - Uspekhi
Vol III, No 4

Sci - Phys

Apr 61

147,169

Optical Absorption in Semiconductors, by V. P.
Shirokovskiy, 7 pp.

RUSSIAN, per, Trudy Inst Fiziki Metallov, No 22, 1959,
pp 27-31.

CIA/FDD XX-1158

NOT RELEASABLE TO FOREIGN NATIONALS

Sci

198,451

May 62

USIB INTERNAL USE ONLY

Description of the Electronic State in a Cubic
Crystal, by A. V. Sokolov and V. P. Shirokovskiy,
5 pp.

RUSSIAN, per, Fiz Metal i Metall, Vol IV, No 1,
1957, pp 3-8.

Pergamon Press

Sci - Min/Met

Sep 58

73,005

Shirokovskiy, V. P.
OPTICAL ABSORPTION IN SEMICONDUCTORS. [1961]
7p. 4 refs.
Order from RIS \$10.00

RIS E-759

Trans. of [Akademiya Nauk SSSR]. Inst[itut] Fiziki
Metallov [Sverdlovsk]. Trudy, 1959, no. 22, p. 27-31.

DESCRIPTORS: *Semiconductors, *Optics, Light,
Absorption

(Physics--Solid State, TT, v. 6, no. 2)

C1-22496

- I. Shirokovskiy, V. P.
- II. RIS E-759
- III. Research Information
Service, New York

Office of Technical Services

Preparation of Infrared Transmitting Films, by Z. V. Shirokshina, N. V. Gulykovskaya, 8 pp.

RUSSIAN, per, Optika i Spektros, Vol IV, No 1, 1958, pp 82-86.

9048492

SLA 59-15025

Sci - Physics

Sep 59

Vol II, No 2,

98, 6 77

Properties of Alcoholic Tungsten Hexachloride Solutions
and of Films Made From Them, by Z. V. Shirokshina,
N. V. Suikovskaya, 6 pp.

RUSSIAN, per, Zhur Prik Khim, Vol XXXIII, No 5,
1960, pp 1001-1007.

CB

Sci

Apr 61

149,646

118
Two-Configuration Approximation for
Atomic Species of Oxygen Type,
by A. B. Bolotin, I. I. Shironas, et al.

8 pp.

RUSSIAN, per. Filimon Vokobrova
Universiteta Sverdlova Ekaterinburg. 11.12.1960
Fizika 7/ 1960, pp 107-115. 740029/367
APRIL 7-8-62

I. I. Shironas

Sci-Phys
June 67

327,262

The Fock Self-Consistent Field in the Multicon-
figuration Approximation for the Helium Atom,
by Ya. I. Viznerskiy and V. I. Shironos, et al,
FOR OFFICIAL USE ONLY

AGOSIAD 171 Opzina i spektroskopiya, Vol 1, No 1,
1966, pp 177-281. 100057506
AFOSL Y-4-471

V. I. Shironos

Orig-

Page 601

300,104

The Use of the Microagglutination Reaction
with Q-Fever Antigen for Detection of Anti-
bodies in Sheep Sera, by L. I. Shironin

RUSSIAN, no per, Voenno Med Zhur, No 10,
Moscow, Oct 1960, pp 48-49

US JPRS 7961

Sci
Mar 61

143,574

Process and Equipment Employed for the
Heat Treatment of Thermoplastic Syn-
thetic Fibers, by Y. Midorigawa, K.
Shirano, N. Fukuma, T. Kihara.
JAPANESE, Patent SHO 43-533
HTC 69-10531-11E

96

Sci-Mat
July 69

K. Shirano
388,7980

The Anisotropy of Galvano- and Thermomagnetic
Effects in n-type Germanium, by I. M.
Tsidi'l'kovskiy, V. P. Shirovskiy, 6 pp.

RUSSIAN, per, Fiz Metal i Metallov, Vol IX,
No 3, 1960, pp 321-326.

PP

Sci

Apr 61

149,606

Determination of the Chemical Composition of
Chlorites by the X-Ray and Optical Methods,
by Shirozu Haruo.

JAPANESE, ppt, Japanese Association of Minera-
logists, Vol XLIV, No 1, Feb 1960, pp 16-22.
Dept of Inter G(620)
J27j

Shirozu, Haruo

Sci - Chem
May 66

300,601

Methods of Operation with Anchored Buoy
stations, by V. A. Shirrey.
RUSSIAN, per, Trudy Ak Lank SSSR, East Channel,
Vol LV, 1962, pp 3-22.
Dept of Inter GII
E57
No 64

Shirrey, V. A.

Sci - Eng
May 66

300,544

Cobalt Content of Plants, Soils and Fertilizers,
by M. V. Katalymov, A. A. Shirshov, 4 pp.

RUSSIAN, per, Dok Ak Nauk SSSR, Vol VI, 1955,
pp 955-957. C

SLA Tr R-1323

Sci

Jun 58

65,822

Contribution to the Question of the Treatment
of Cancer of the Uterus and of Erosion of the
Vaginal Part by Extract of Celandine, ~~XXXXX~~
by D. I. Shirshov', 18 pp.

RUSSIAN, per, Bol'nichnaya Gazeta Botkina,
Vol VIII, No 3/4, 1897, pp 73-78, 108-110.

NIH

Scientific - Medicine

CTS/DEX

19,358

Inherent Widths of the Internal Conversion Lines of
an Active Deposit of Radiothorium, by G. D. Latyshev,
A. G. Sergeyev, E. M. Krisiuk, L. A. Ostretsov,
Yu. S. Egorov, N. M. Shirshov, 8 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Ser Fiz, Vol XX,
No 3, 1956, pp 354-362.

Columbia Tech Tr

Sci - Physics

Apr 57 CTS

46, 137

Scientific Results of the Drift of Station
North Pole, by Petr Petrovich Shirshov, 51 pp.

RUSSIAN, per, Ak Nauk SSSR, Otdelcheniye,
Feb 1954, pp 110-140, CIA D 197066

4

RT-3292
American Meteorol Soc for T-374RU
Geophysics Res Dir, ASTIA

Sci & Geophysics
May 1956

34,453

Apparatus for Determining the Volume of Small
Particles (Soil Particles, Fine Seeds, Clover
Nodules, etc), by V. A. Shirshov, 3 pp.

RUSSIAN, no per, Pochvovedeniye, No 10, 1953,
p 79.

Sci Tr Center RT-2414

Scientific - Biology
Dec 55 CTS/DEX

29,098

Derivatives of Mono- and Dianhydrides of Xylite,
by S. N. Danilov, A. N. Anikayeva, N. S. Tikhoni-
rova-Sidorova, A. N. Shirokova, 9 pp.

RUSSIAN, per, Zhur Obshch Khim, Vol XXVII, No
9, 1957, pp 2434-2444.

Consultants Bureau

Sci - Chem
Oct 58

75, 159

The Effect of Phosphorus Pentachloride on Octaacetyl-
cellobiose and the Anomeric Sugar Acetates, by S. N.
Danilov, O. P. Kozmina, A. N. Shirshova, 4 pp.

RUSSIAN, per, Zhur Obshch Khim, Vol XXVII, No 4, 1957,
pp 945-948.

Consultants Bureau

Sci - Chem
Aug 58

69, 221

FAVORSKAYA, T. A., and SHIRSHOVA, A. N.

Synthesis of Dimethylethylphenylethylene Glycol
and its Reaction with Sulfuric Acid

Zhur Obshch Khim, Vol XIX, No 1, 1949 (Jan), pp 159-
164

Consultants Bureau Translation

A-12122

Influence of Oxygen on the Degradation of Poly-
methyl Methacrylate, by O. P. Kos'mina, A. N.
Shirehova, 2 pp.

RUSSIAN, per, Zhur Prikl Khim, Vol. XXX, No 12, 1957,
pp 1878-1879.

Consultants Bureau

Sci - Chemistry
Feb 59

82,010

Seasonal Changes of the Photoplankton of the
Polar Seas in Connection with Ice Regime, by
P. Shirshov, 76

RUSSIAN, per, Trudy Arkticheskoy i Antark-
ticheskoy Nauchno-Issledovatel'skoy Inst.,
Vol LXXII, 1937, pp 42-112.

Dept of Inter
OC1 E57 No 97.

Sci-Bar Sci
Jan 67

516,723

Effect of Potassium Fertilizers on the Uptake of
Radio-active Strontium by Plants, by R. A. Spirshova
p. 7

RUSSIAN, per, Pochvovedeniye, No 3, 1962, pp. 36 - 44

Scripta Technica

Sci

340, 419

Aug 63

The Effect and Aftereffect of the Radioactive
Isotope Strontium-90 on Plants, by R. A.
Shirshova, 3 pp.

RUSSIAN, per, Dok Ak Nauk SSSR, Vol CXXXVIII,
No 4, 1961, pp 2 948-.

AIP
Sov Phys - Dok
Vol VI, No 6

Sci

Jan 62

892
182, ~~686~~

Study of Type Specific Immunity in Experimental
Leptospirosis, by A. I. Shirvinskaya, 4 pp.

RUSSIAN, per, Zhur Mikrobiol Epidemiol i Immunobiol,
Vol XXX, No 10, 1959, pp 33-37.

PP

Sci
Sep 60

127,711

Reaction of Calcium Germanates with Water at Room
Temperature, by N.A. Toropov and A.K. Shirvinskaya,
6 pp.

RUSSIAN, per, Zhur Prii Khim, Vol XXXVI, No 4,
1963, pp # 717-723.

CB

Sci
Jul 64

262,310

An Experiment in Organizing Collective Work in a
Boarding School, by B. E. Shirvindt, 4 p.

RUSSIAN, per, Sovetskaya Pedagogika, No 12, 1959,
pp 30-37.

Interntl Arts and Sci Press
Soviet Education
Vol II, No 4

USSR - Soc
Apr 60

111,615

On Optimum Methods in Quickest Detection Problems,
by A. H. Shiryaev, 25pp.

RUSSIAN, per, Teoriya Veroyatnostei i yeye Primeniya,
Vol VIII, No 1, 1963.

SIAM

246,002

Sci

Jan 64